(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

Organization
International Bureau



540990

(43) International Publication Date 21 October 2004 (21.10.2004)

PCT

(10) International Publication Number WO 2004/089624 A2

(51) International Patent Classification⁷: 33/00, 23/08, C08L 101/00

B32B 27/28.

(21) International Application Number:

PCT/IB2004/001035

(22) International Filing Date: 5 April 20

5 April 2004 (05.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2003/2879

11 April 2003 (11.04.2003) ZA

- (71) Applicant (for all designated States except US): CSIR [ZA/ZA]; Corporate Building, Scientia, Pretoria, 0001 Gauteng Province (ZA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KRUGER, Arnoldus, Jacobus [ZA/ZA]; 22 Chardonnay, Duiker Avenue, Zwartkop, Centurion, 0157 Gauteng Province (ZA). TRUTER, Patricia, Ann [ZA/ZA]; 651 Van Gogh Crescent, Moreleta Park, Pretoria, 0002 Gauteng Province (ZA).
- (74) Agent: SCHWEIZER, Adrian, Victor, van; c/o Adams & Adams (Johannesburg), 3rd Floor, 23 Wellington Road,, Parktown, Johannesburg, 2193 Gauteng Province (ZA).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PACKAGING

(57) Abstract: The invention provides a packaging material which comprises a polymeric base component and a barrier component which coats and lines a surface of the base component, the barrier component inhibiting migration of gases, vapours and liquids through the base component. The barrier component comprises a polymeric layer comprising at least two different polymeric species are bound together physically by interpolymer complexation to form an interpenetrating physical network. The invention also provides a process for producing the packaging material which comprises coating at least one surface of the base component with the barrier component and causing the complementary species to interact together physically by interpolymer complexation to form an interpenetrating physical network.